

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	161	(546/4).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/18 15:02
L2	7375	((428/690,917) or (313/504,506) or (257/40,102,103) or (252/301.16)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/18 15:02
L3	3601	2 and (organometal\$5 or ligand or chelat\$5 or complex\$5 or coordinat\$5)	US-PGPUB; USPAT	OR	ON	2005/07/18 15:05
L4	706	3 and iridium	US-PGPUB; USPAT	OR	ON	2005/07/18 15:04
L5	70370	(benzene or phenyl) same (pyridine or pyridinyl or pyridyl)	US-PGPUB; USPAT	OR	ON	2005/07/18 15:05
L6	289	4 and 5	US-PGPUB; USPAT	OR	ON	2005/07/18 15:05
L7	256	6 not 1	US-PGPUB; USPAT	OR	ON	2005/07/18 15:07
L8	3360	5 and iridium and (organometal\$5 or ligand or chelat\$5 or complex\$5 or coordinat\$5)	US-PGPUB; USPAT	OR	ON	2005/07/18 15:06
L9	7300	iridium same (organometal\$5 or ligand or chelat\$5 or complex\$5 or coordinat\$5)	US-PGPUB; USPAT	OR	ON	2005/07/18 15:06
L10	113	5 same iridium	US-PGPUB; USPAT	OR	ON	2005/07/18 15:06
L11	94	9 and 10	US-PGPUB; USPAT	OR	ON	2005/07/18 15:06
L12	47	11 not (1 or 6)	US-PGPUB; USPAT	OR	ON	2005/07/18 15:07

MEY

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	144807	(organometal\$5 or ligand or chelat\$5 or complex\$5 or coordinat\$5).clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:10
L2	2686	1 and (iridium or ir).clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:10
L3	153177	("c" with "o").clm. or "co".clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:11
L4	1042	2 and 3	US-PGPUB; USPAT	OR	ON	2005/07/18 15:11
L5	328	2 and carbonyl.clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:11
L6	150	(4 or 5) and (electrode or cathode or anode).clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:11
L7	144	(4 or 5) and (electrolumines\$5 or lumines\$5 or fluores\$5 or phosphore\$5 or electrophosphores\$5 or (light and (emit\$5 or emiss\$5))).clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:13
L8	236	6 or 7	US-PGPUB; USPAT	OR	ON	2005/07/18 15:13
L9	957	(4 or 5) not 8	US-PGPUB; USPAT	OR	ON	2005/07/18 15:13

*Interference Text Search*

*May*

=> FILE REG

FILE 'REGISTRY' ENTERED AT 13:48:01 ON 18 JUL 2005  
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*EIC 1700  
Search*

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

*MEY*

STRUCTURE FILE UPDATES: 17 JUL 2005 HIGHEST RN 855596-49-5  
DICTIONARY FILE UPDATES: 17 JUL 2005 HIGHEST RN 855596-49-5

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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\*  
\* The CA roles and document type information have been removed from \*  
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\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
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<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> FILE HCAPLUS

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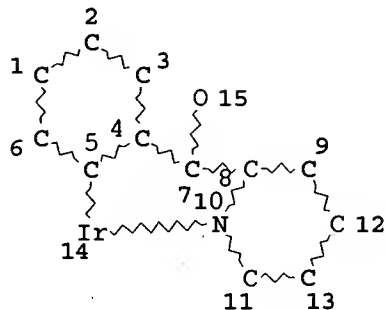
FILE COVERS 1907 - 18 Jul 2005 VOL 143 ISS 4  
FILE LAST UPDATED: 17 Jul 2005 (20050717/ED)

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This file contains CAS Registry Numbers for easy and accurate  
substance identification.

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L5 STR



## NODE ATTRIBUTES:

CONNECT IS E1 RC AT 15  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 15

## STEREO ATTRIBUTES: NONE

L7 1 SEA FILE=REGISTRY SSS FUL L5  
 L8 1 SEA FILE=HCAPLUS ABB=ON L7

=&gt; D L8 BIB ABS IND HITSTR

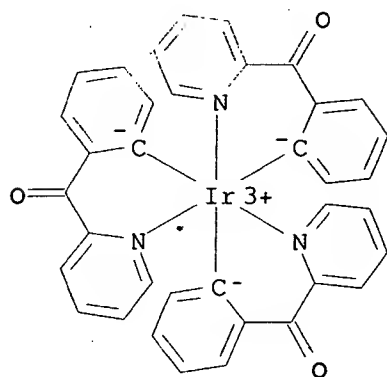
L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2002:427663 HCAPLUS  
 DN 137:26174  
 TI Metal coordination compound, luminescence device and display apparatus  
 IN Tsuboyama, Akira; Mizutani, Hidemasa; Okada, Shinjiro; Takiguchi, Takao;  
 Miura, Seishi; Noguchi, Koji; Moriyama, Takashi; Igawa, Satoshi; Kamatani,  
 Jun; Furugori, Manabu  
 PA Canon Kabushiki Kaisha, Japan  
 SO Eur. Pat. Appl., 42 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1211257	A2	20020605	EP 2001-128237	20011128
	EP 1211257	A3	20031029		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2003081989	A2	20030319	JP 2001-354703	20011120
	US 2003054198	A1	20030320	US 2001-995608	20011129
	CN 1364847	A	20020821	CN 2001-138389	20011130
PRAI	JP 2000-367080	A	20001201		
	JP 2001-198439	A	20010629		
	JP 2001-354703	A	20011120		
OS	MARPAT 137:26174				

AB The present invention relates to a metal coordination compound, an organic luminescence device using the metal coordination compound and display apparatus using the device. The present invention relates to a metal coordination

compound having formula  $LmML'n$  ( $M = Ir, Pt, Ph, Pd$ ;  $L =$  bidentate ligand;  $L' =$  bidentate ligand different from  $L$ ;  $m = 1, 2, 3$ ;  $n = 0, 1, 2$ ;  $n+m = 2$  or 3) appearing after it as a luminescence material so as to allow stable luminescence efficiency. The present invention relates to an organic electroluminescence device having high responsiveness and high efficiency.

- IC ICM C07F015-00  
ICS H01L051-00
- CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
Section cross-reference(s): 29
- ST Iridium coordination complex electroluminescence device
- IT Electroluminescent devices  
(metal coordination compound for luminescence device and display apparatus)
- IT Coordination compounds  
RL: TEM (Technical or engineered material use); USES (Uses)  
(metal coordination compound for luminescence device and display apparatus)
- IT 25067-59-8, Polyvinyl carbazole  
RL: TEM (Technical or engineered material use); USES (Uses)  
(luminescent material; metal coordination compound for luminescence device and display apparatus)
- IT 433692-49-0P 433692-50-3P  
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(metal coordination compound for luminescence device and display apparatus)
- IT 433692-48-9P  
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(metal coordination compound for luminescence device and display apparatus)
- IT 359014-65-6 433692-41-2 433692-42-3 433692-43-4  
433692-44-5 433692-45-6 433692-46-7 433692-47-8  
RL: TEM (Technical or engineered material use); USES (Uses)  
(metal coordination compound for luminescence device and display apparatus)
- IT 101-82-6, 2-Benzylpyridine 109-04-6, 2-Bromopyridine 123-54-6,  
Acetylacetone, reactions 1008-89-5, 2-Phenylpyridine 14996-61-3  
15635-87-7, Iridium tris(acetylacetonate) 98437-23-1,  
Benzo[b]thiophene-2-boric acid  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of metal coordination compound for luminescence device and display apparatus)
- IT 38210-35-4P 343978-72-3P 343978-79-0P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of metal coordination compound for luminescence device and display apparatus)
- IT 433692-41-2  
RL: TEM (Technical or engineered material use); USES (Uses)  
(metal coordination compound for luminescence device and display apparatus)
- RN 433692-41-2 HCAPLUS
- CN Iridium, tris[2-[(2-pyridinyl-κN)carbonyl]phenyl-κC]- (9CI)  
(CA INDEX NAME)



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